

Work Order ID 68438

Wednesday, April 13, 2011 11:25:22 AM



PRELIMINARY ISSUE

Page 1

Item ID: D4379-1

Accept



Setup Start



Revision ID: PRELIM

Item Name: Wearplate Cup

Stop



Start Date: 4/13/2011 Start Qty: 24.00



Cust Item ID:

Required Date: 4/19/2011 Req'd Qty: 24.00



Customer:



Reference:

Approvals:

Process Plan:

Handwritten initials

Date: 4-04-13

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D4379

PA1

100

0.00



Boosan

Boosan Lathe

MANUAL
LATHE.

Handwritten: 4/11/04/13

Memo — FACE TO SIZE 0.00
turn as per Dwg AS per
Dwg Rev: Dwg. D4379-1.

Deburr

Handwritten: rd 11.4.14

Handwritten: 22

110

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Quality Control

Memo

0.00

Handwritten: rd 11.4.14

Handwritten: 22

120

QC8- Inspect parts - second check

0.00



QC

Quality Control

Memo

0.00

Handwritten: rd 11.04.14

Handwritten: 22

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____






NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			



NOTE: Date & initial all entries


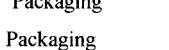


Work Order ID 68438

Wednesday, April 13, 2011 11:25:22 AM

Page 2

Item ID:	D4379-1	Accept		Setup	Start	
Revision ID:	PRELIM					
Item Name:	Wearplate Cup				Stop	
Start Date:	4/13/2011	Start Qty:	24.00		Cust Item ID:	
Required Date:	4/19/2011	Req'd Qty:	24.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Identify as per dwg & Stock Location: <i>Webbing</i>	0.00							
Packaging 	Memo <i>Cell</i>	0.00							
140 	QC21- Final Inspection - Work Order Release	0.00							
QC 	Memo	0.00							
Quality Control									

RD2381

Rev A
11.04.21

W1104-15

POSITIVE RECALL
EFFECTIVE *11.04.13* AUTH *U*
RELEASED *AS* DATE *11.06.02*

Scrap Eng Lab 11.06.02

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, April 13, 2011 11:25:29 AM

Page 1

Work Order ID: 68438



Parent Item: D4379-1



Parent Item Name: Wearplate Cup

Start Date: 4/13/2011

Required Date: 4/19/2011

Start Qty: 24.00

Required Qty: 24.00

Comments: IPP REV:A NEW ISSUE 11-04-13 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304RO.750		Purchased	No				f	42.2870		3.789474			



304 SS Roundbar .750



Location

Loc Qty

Loc Code

MAT028

42.287

116501

18.207

116623

24.08

D4013-5

B54676

X22
=

This Batch
only. Jan 11-04-13.

Jan 11-04-13

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

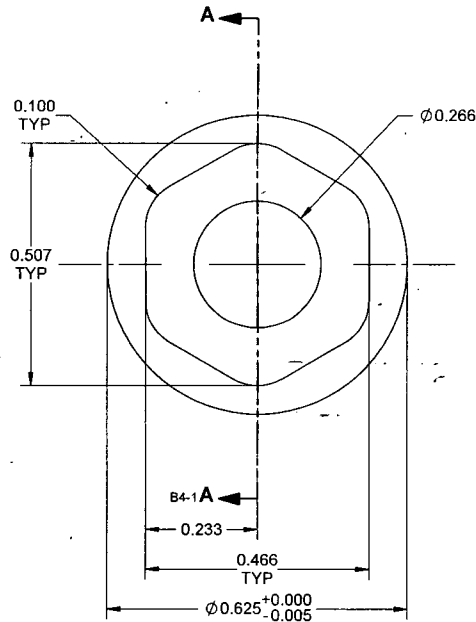
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

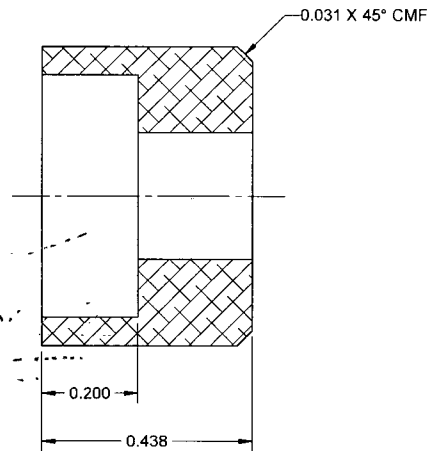
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

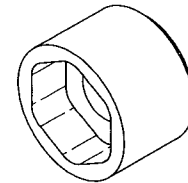
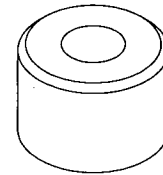
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 48438
PL11-04-13



D4379-1 WEARPLATE CUP



SECTION A-A B7-1



PRELIMINARY A1
11.03.30 AJS

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL ROUND BAR PER ASTM A276
REF. DART SPEC M304R
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

PA1	PRELIMINARY	AJS	11.03.30
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		D4379	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		WEARPLATE CUP	NTS
DATE	11.03.30	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 54676

December 16, 2009 10:22:12 AM



Page 1

Item ID: D4013-5

Accept



Setup Start



Revision ID:

Stop



Item Name: Cup

Start Date: 12/16/2009 Start Qty: 120.00



Cust Item ID:

Required Date: 12/21/2009 Req'd Qty: 120.00



Customer:

Reference:

Approvals: Process Plan: MF Date: 09-12-16

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4013	C								

100



Doosan

Doosan Lathe

Memo

turn as per Dwg
Dwg Rev: C

Deburr

0.00

0.00

SA 10/01/02

120 6

110



QC

Quality Control

QC2- Inspect parts off machine FAI/FAIB

Memo

0.00

0.00

SA 10/01/02

120 6

120



QC

Quality Control

QC8- Inspect parts - second check

Memo

0.00

0.00

A.A 10/01/04

120 6

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 54676

December 16, 2009 10:22:12 AM

Page 2

Item ID: D4013-5

Accept



Setup Start



Revision ID:

Item Name: Cup

Stop



Start Date: 12/16/2009 Start Qty: 120.00



Cust Item ID:

Required Date: 12/21/2009 Req'd Qty: 120.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

Identify as per dwg & Stock Location: *W/A*

0.00



Packaging

Memo

0.00

Packaging

EL-10-1-4 2120

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10.01.05

W 10.01.05

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 1

December 16, 2009 10:22:11 AM

Work Order ID: 54676



Parent Item: D4013-5



Parent Item Name: Cup

Start Date: 12/16/2009

Required Date: 12/21/2009

Comments: IPP RevA: New issue 09.10.26 DD verified by:JLM
revC as per dwg 09.11.18 DD verified by:JLM

IPP RevC:

Start Qty: 120.00

Required Qty: 120.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
M304RO.750		Purchased	No			100	f	17.1060	18.9474			
304 SS Roundbar .750												

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

MAT

17.106

113216

17.106

113457

7.6A

SN 0101/02

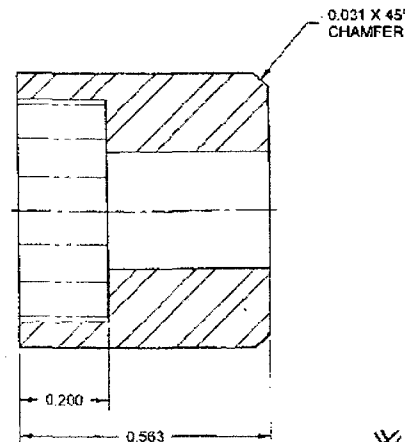
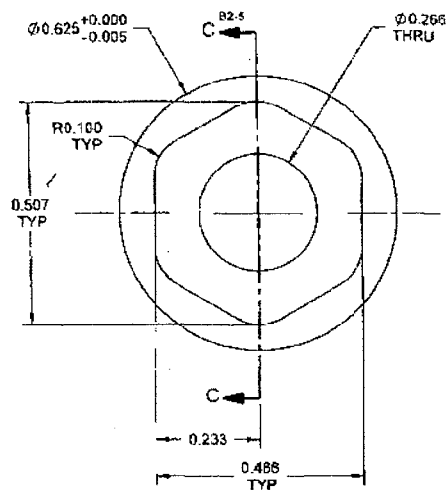
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



SECTION C-C D6-5

#54676

RELEASED
2009-11-24

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL ROUND BAR PER ASTM A276
REF. DART SPEC. M304R
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.03 lbs EACH

DESIGN	LA	DART AEROSPACE LTD	
DRAWN	LA	HAWKESBURY, ONTARIO, CANADA	
CHECKED	LA	DRAWING NO.	REV. C
MFG. APPR	LA	D4013	SHEET 5 OF 5
APPROVED	LA	TITLE	SCALE
DE APPR	LA	WEARPLATE ASSEMBLY	NFS
DATE	09.11.11	COPYRIGHT © 2000 BY DART AEROSPACE LTD.	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Receiving Report

Date: 9/12/16 Batch No: M113437
 Supplier: MAGNA Dart P/O: 1094P
 Packing Slip: Yes ☒ No ☐ Release Note Attached: Yes ☒ No ☐ N/A ☐
 Invoice: Yes ☐ No ☒ Waybill Attached: Yes ☐ No ☒ N/A ☐
 Receipt: Cash ☐ Cr ☒ Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection ☒ N/A ☒
 Work Order 021217

Discrepancies						
Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

Production/Admin: 9/12/16
 Date
 Received/Costing
 Initial

Location

Page 1 of 1

All amounts are calculated in domestic currency.

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name		VC-MAG002	Magna Stainless								
PO10948	1		M304R0.750	f	12/16/2009	12/16/2009	48.4000	\$4.00	0.0000	0	\$193.60
CAD	No		304 SS Roundbar .750	f	48.0000	Stores		\$193.60	0.0000	0	
			113457								
	2		M304R1.000	f	12/16/2009	12/16/2009	48.8000	\$7.17	0.0000	0	\$349.73
	No		304 round bar 1.00	f	48.0000	Stores		\$349.73	0.0000	0	
			113457								
	3		M6061T6R1.125	f	12/16/2009	12/16/2009	60.0000	\$3.00	0.0000	0	\$180.00
	No		6061 ROUND BAR 1.125	f	60.0000	Stores		\$180.00	0.0000	0	
			113457								
	4		M6061T6R1.000	f	12/16/2009	12/16/2009	40.0000	\$2.10	0.0000	0	\$84.00
	No		ROUND BAR 1.00"	f	40.0000	Stores		\$84.00	0.0000	0	
			113457								
Total Received Quantity:											197.2000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$807.33
Total Balance Due Quantity:											0.0000



Magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105



PACKING LIST

Page 1 of 1

1020964

SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY, ON
K6A 1K7
Contact: CHANTAL

HAWKESBURY, ON
K6A 1K7
Ship Terms: PREPAID

MAR:Y

SPECIAL INSTRUCTIONS

Currency		Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		ERYCK BLAIS	(613) 632-5200	(613) 632-1053	1010948	
Sales Order	Terms		Ship Via	Date Ordered	Date Required	Date Shipped
W023020	NET 30 DAYS		NIR:R-557065-1	12/15/09	12/16/09	12/16/09

Ordered	Back Ordered	Unit	Description	Bundle#	Heat#	Shipped
2		PC	ALUMINUM ROUND BAR ARB 6061 T6 1" x R/L			2
			20' 37 LB / 2 PC	1030370	7679	2
3		PC	ARB 6061 T6 1-1/4" x R/L			3
			20' 87 LB / 3 PC	1028176	129440	3
			STAINLESS ROUNDS			
4		PC	SRB 304 3/4" x R/L			4
			12'10" 78 LB / 4 PC	1033307	978246	4
4		PC	SRB 304 1" x R/L			4
			12'2" 132 LB / 4 PC	1033312	18023	4
Bundles: 1				Approx Weight:		384 LB

Received by:

Date:

Signature:

ANALYSIS CERTIFICATE

Empire Resources, Inc.

One Parker Plaza
Fort Lee, NJ 07024-2937
United States
Tel: (201) 944-2200
Fax: (201) 944-2226
rtcoombs@empireresources.com

EMPIRE Letter Ref. #: EWR50894



Friday, 12 June, 2009

Date: June 12, 2009

Sales Contract #: E136627

Alloy-Temper: 6061-T6

Container #: EXTR20080401

Case #: EXC16160

Cast #: 729440

Die #: A18106

Specification: 1.25" X 20" ROUND ROD 6061, T6

Purchase Order: P005391

Customer Part #:

8
05/12/17

MADE IN THE USA

Chemical Composition (WT%)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Elements	
Min	0.40		0.15		0.8	0.04			Each Max	Total Max
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15
Actual	= 0.53	= 0.17	= 0.19	< 0.01	= 0.8	= 0.07	= 0.02	< 0.01	= 0	

* Aluminum = Remainder

Actual cast analysis is retained on file.

Tensile Properties

Test No.	Yield (ksi)	Tensile (ksi)	Elong. (%)
1	37.1	99.6	15.9

ASTM B221-06; AMS-QQ-A-200/8-97

Ross Toombs

Authorized Signature

Ross Toombs
General Manager

P005391-EXC16160



ACEROS INOXIDABLES

CLARRA



Trade Mark - Zeichen des Inhabers
Anagrama del administrador

Works Inspector Stamp - Werksachverständiger
Sello del Inspector

3

Certificate type - APZ Nach Certificado tipo		EN 10.204/3.1		Certificate n° - Prüf-Nr Certificado n°		643.524		Date-Datum-Fecha 28 DE JULIO 2009							
Our order n° Works - Nr N° de Referencia		411.314		Heat Schmelze Caleada		B78340		Your order n° Basistell - Nr Pedido N°							
Steel Grade Werkstoff Calidad		AISI-304-L V MECAMAX		According to Entsprechend Corresponde		ASTM A479/A479M-08									
Shape and Size - Geometrie Perfil y dimension ROUND 3/4"		Tolerance - Toleranz Tolerancia ASTM-A464-08		Bundles Bunde Bultos		8		Bars Stäbe Barras							
				Weight Gewicht Peso		10.780 LBS									
Requirements - Anforderungen - Exigencias															
ASTM A 276-08a ASME SA 479/SA 479M-07 ASTM A182/A182M-08a ASME SA 182/SA 182M-08a. Grain Size A/ASTM E 112-88 =5. ASTM A193/A193M-08b.B8 CL1,					QQ-S-783F-96.COND A.SAEAMS5647H-02.SAEAMS563SH-02- Acc.to NACEMR 0176-03, ASME SA193/SA193M-08a.B8 CL1.										
Melting process / Erhitzungsart / Proceso de Fusión E.A.F. / A.O.D.				Heat treatment / Wärmebehandlung / Tratamiento térmico 1.050 , 4 HORAS Water / Wasser / Agua											
Solution annealed/Abgeschreckt/Hipertempe >> Polished/Poliert/Pulido >> Cold drawn/Gezogen/Estirado															
Test results - Ergebnis der Prüfungen - Resultados de los ensayos															
Dimension of Specimen Abmessung des Probestabes Medida de las probetas		Rp 0.2% N/mm2 MPA	Rp 1% N/mm2 MPA	RM N/mm2 MPA	A %L 5D	A %L 4D	Z %	Hardness Härte Dureza HBW	Impact Test / Kerbschlag / Resistencia ISO V Julas						
Min.															
Max.		KSI		KSI											
Temperature/°C 20C	Spec. N° Probe Nr. Pro N°.	1	72.650		98.330		47	70	217						
Min.	C	SI	Mn	P	S	Cr	Mo	NI	TI	Cu	Co	N			
Max.															
	0,030	0,36	1,49	0,034	0,024	18,00	0,37	8,05		0,44	0,140	0,0880			
Visual and dimensional inspection Beisichtigung und Ausmessung Control visual y dimensional		O.K.		Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad		O.K.		Antinizing test Spektrale Vorwuchstungspr Antinizing		O.K.		Grain Size Korngröße Tamaño de grano			
Remarks - Bemerkungen - Observaciones															
Dual Certified Tp 304.UNS-S-30400/S-30403.No Weld Repair. Free from mercury contamination The micro and macro test were satisfactory Material Stable To Interstitial Corrosion A/ASTM A 262 E. This Material Is Free of Continuous Carbide Networks. U.S.Inspection Is Satisfactory A/ASTM A 368/A 368M-08.															
EDV / EDP Acc. EN 10.204 Alfredo Molina Certification Mng. Works Inspector Der Werkstoffverständige Inspector de fábrica															

05.12.17

978346-9007728

VIRAJ PROFILES LIMITED



Unit-V
Survey NO 110,111,114/1 C-D 116,119 & 120
Village Mahagon
Dist: THANE 401 506
MAHARASHTRA, INDIA.

TEST CERTIFICATE

CUSTOMER	ORDER NO	PACKING LIST NO	INSPECTION NO	DATE
	P00952	IMP/903753/2	10000153320	24.08.2009
			GRADE 304/304L	HEAT No 18023

BUNDLE NO :
5117071, 5117070, 5117069, 5117072, 5117073, 5117074, 5117075, 5117076, ..

DESCRIPTION
STAINLESS STEEL BRIGHT BARS

SMOOTH TURNED

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
1"	ROUND	ASTM A484	12'-14'	252	8,390.000 LB

CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0130	1.470	0.420	0.0210	0.0330	18.250	8.050	0.590	0.330	0.140	0.07400

TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS
72.0	99.0	45.0	69.0	207.0	6.0

SPECIFICATION:

MATERIAL CONFIRMS TO ASTM A182/A-182M-06, A276-06 COND A, A479/A479M-06a COND A, A193/A193M-06a B8 CL-1, A320/A320M-05a B8 CL-1, A484 06b, A388/A388M-05, ASME SA182-04, SA479-04, SA 193-04 B8 CL-1, SA320-04 B8 CL-1, ASTM A314-2002, IGC SATISFACTORY AS PER ASTM A 262-02a PRACTICE E, AMS 5639Q, QQ-S-7637, NACE-MR0175-2002, A181 304/304L, UNS#S30400/S30403, CERTIFICATION AS PER EN 10204-3.1.

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO: FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES, MACRO: GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1hr/inch, WATER QUENCHED. MELT SOURCE: AOD. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION. COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

Suvarna
WORKS INSPECTOR
S. SUVARNA.

05.12.17

P007728-18023

Material Test Report

Customer Ship To:

Magna Stainless Inc.
5775 Kieran St.

St-Laurent

OB H4S 0A3

Our Order: 363645 - 3

Your PO # P006376

Part # 05446-000-240

Die: ES05446

Description: 1.000

Alloy Temper 6061 T6

Print Date: 9/1/2009

Chemical Properties

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	others each	others total	Al
0.40-0.8	0.7 max	0.15-.40	0.15 max	0.8-1.2	0.04-0.35	0.25 max	0.15	0.05	0.15	remain

Mechanical Properties

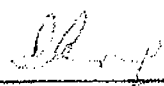
Test ID	Test Date	CastNum	Strength ksi		Elongation (2" gage length)
			Ultimate	Yield (2% Offset)	
117726	9/1/09	7679	42.51	35.38	14.7
117727	9/1/09	7679	43.32	35.64	13.6

Applicable Specifications: ASTM B221-08 ASTM B308-02 ASTM B429 QQA200/8 QQA200/16

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Doug Barnes - Tensile Testing

Authorized


Evan Eng, Quality Assurance Mgr.

P006376-7679



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO10948

Purchase Order Date 12/15/09

PO Print Date 12/15/09

Page Number 1 of 2

Order From :

VC:MAG002

FAXED

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

800 363 6646

514 339 1105

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M304RO.750	304 SS Roundbar .750	12/16/09 Yes	48.00	Yours ppd	\$4.0000	\$192.00
			Special Inst: MATERIAL: AISI 304/316 SS ROUND BAR NOTE: AISI 303 NOT ACCEPTABLE				
2	M304R1.000	304 round bar 1.00	12/16/09 Yes	48.00	Yours ppd	\$7.1666	\$344.00
			Special Inst: AS ABOVE				
3	M6061T6R1.125	6061 ROUND BAR 1.125	12/16/09 Yes	60.00	Yours ppd	\$3.0000	\$180.00
			Special Inst: MATERIAL: 6061-T6T6511/T6510/ T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/ 4128/4115/4116 OR ASTM B211 OR ASTM B221				

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 12/15/09



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO10948**

Purchase Order Date 12/15/09

PO Print Date 12/15/09

Page Number 2 of 2

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

4	M6061T6R1.000	ROUND BAR 1.00"	12/16/09	✓ 40.00	Yours ppd	\$2.1000	\$84.00
			Yes	f			

Rec'd 9/12/16

Special Inst: AS ABOVE

PO Total: \$800.00

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

Change Nbr: 1

Change Date: 12/15/09

h *CZ*
No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Chantal Lavoie

From: Eryck Blais [eblais@magnastainless.com]
Sent: December 14, 2009 1:20 PM
To: 'Chantal Lavoie'
Subject: RE: quote

all stock
thank you
eryck

From: Chantal Lavoie [mailto:clavoie@dartaero.com]
Sent: Monday, December 14, 2009 11:30 AM
To: Eryck Blais
Subject: quote

Please advise price & delivery on material.
6061-t6 round bar 1" x 40 ft 2 pcs x 42.00 ea
6061-t6 round bar 1.250" x 60 ft 3 pcs 60.00 ea
304 round bar .750" x 40 ft 4 pcs 48.00 ea
304 round bar 1.00" x 40 ft 4 pcs 86.00 ea

Thanks
Chantal